| <br>ex of | - |  |
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| App | lica | tio | n/C | Con | trol | No. |
|-----|------|-----|-----|-----|------|-----|

10/663,380 Examiner

Fenn C. Mathew

Applicant(s)/Patent under Reexamination

GRAY ET AL.

Art Unit

3764

| <b>√</b> | Rejected |
|----------|----------|
| 11       | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla      | nim      | Date      |              |  |          | Claim Date                                       |  |  |   |          |          |          |              |          | Claim Date |           |           |          |          |                  |  |          |          |          |          |          |          |        |          |          |          |   |
|----------|----------|-----------|--------------|--|----------|--|--|--|---|----------|----------|----------|--------------|----------|------------|-----------|-----------|----------|----------|------------------|--|----------|----------|----------|----------|----------|----------|--------|----------|----------|----------|---|
|          |          | -         | F            | Г  | T        | T  | Ť  |  |   | $\dashv$ | <u> </u> |          |              |          |            |           |           |          |          |                  | <del>                                     </del> | T        | +   Date |          |          |          |          |        |          |          |          |   |
| Final    | Original |           |              |  |          |  |  |  |   |          | Final    | Original |              |          |            |           |           | i        |          |                  |  | Final    | Original |          |          |          |          |        |          |          |          |   |
|          | 1        | +         | T            | 1  | 1        |  | <u> </u>   | T  | П | $\neg$   |          | 51       | Т            | П        |            | $\neg$    | 寸         | $\dashv$ |          | $\neg \uparrow$  | ┪  |          | 101      |          |          | 寸        | $\neg$   |        |          | 寸        | ╗        |   |
|          | 2        | 7         | 1            | <del>                                     </del> | ╁╴       | <del>                                     </del> | ╁╴   | $\vdash$   | Н | $\dashv$ |          | 52       |              |          |            | $\dashv$  | 7         | $\dashv$ |          | $\dashv$         | ┥.   | <b></b>  | 102      | $\Box$   |          | 7        |          | _      |          | 寸        | 寸        |   |
| <b>—</b> | 3        | +         | -            | 1  | +-       | $\vdash$   | $\vdash$   | H  | Н | $\dashv$ |          | 53       |              | $\vdash$ |            | 一         | $\dashv$  | _        | _        | $\dashv$         | _  |          | 103      | $\vdash$ | $\dashv$ | 7        | _        |        | $\neg$   | 寸        | 十        |   |
|          | 4        | +         |              | ├  | +-       | ╁╌   | ┢╌   | Ħ  | Н | $\dashv$ |          | 54       | $\vdash$     | П        | $\neg$     | $\dashv$  | $\neg$    |          | _        | 一                | ┪  | $\vdash$ | 104      |          |          | 7        | _        |        |          | 7        | 十        |   |
| -        | 5        | H         |              | t  | +        | ┢  | ╁  | <u> </u>   | Н | $\dashv$ |          | 55       |              |          | -          | -         | $\neg$    | $\neg$   | -        | -                | _  | -        | 105      | $\vdash$ |          | 7        | $\neg$   |        |          | -        | $\dashv$ |   |
| -        | 6        | $\dashv$  | ┢            | ╁  | ╁        | ┢  | $\vdash$   | ╁  |   | $\dashv$ | -        | 56       |              | Н        | -          |           |           | -        |          | <del>- i</del>   | -  | -        | 106      | $\vdash$ | $\vdash$ | 寸        | _        | _      | _        | _        | $\dashv$ |   |
| -        | 7        | +         | $\vdash$     | ╁  | ╁        | ╁  | $\vdash$   | ┢  | Н | $\dashv$ | -        | 57       |              |          | -          |           | -         | 7        |          | <del>-  </del> - | -  |          | 107      | $\Box$   |          | $\dashv$ | $\neg$   | $\neg$ | $\dashv$ | _        | 十        | _ |
| <u> </u> | 8        | $\forall$ |              | ┢  | ╁╌       | +-   | -  | ╁  | Н | $\dashv$ | <b>├</b> | 58       | ┢┈           |          | $\neg$     | $\dashv$  | $\dashv$  | 十        | 一        | $\dashv$         | $\dashv$   | <b>-</b> | 108      | $\vdash$ | -        | ᅥ        | _        |        |          | _        | $\dashv$ |   |
|          | 9        | H         |              | H  | 十        | ╁╌   | -  | <del> </del>                                     | H | $\dashv$ | <u> </u> | 59       | ┢            |          | $\neg$     | $\dashv$  | 一         | 十        | 一        | -+               | $\dashv$   | h        | 109      |          | -        | $\dashv$ | _        |        | $\dashv$ | 7        | $\dashv$ |   |
|          | 10       | Н         |              | ┢  | $\vdash$ | ┼  | ╁╌   | <del> </del>                                     | Н | $\dashv$ | $\vdash$ | 60       | ┢╾           |          |            | 7         | 寸         | 7        | _        | <del>-  </del> - | -  | <b></b>  | 110      |          | -        | _        | _        |        |          | $\neg$   | $\dashv$ |   |
|          | 11       | +         | $\vdash$     | ╁  | +        | ├  | ╁  |  | H | $\dashv$ | <u> </u> | 61       | -            | Н        | $\dashv$   | $\dashv$  | $\dashv$  | -        |          |                  | $\dashv$   | 1        | 111      |          |          | $\dashv$ | $\neg$   |        |          | _        | _        | _ |
| $\vdash$ | 12       | +         | $\vdash$     |  | +        | +  | $\vdash$   | H  | H | $\dashv$ |          | 62       | П            | H        | $\dashv$   | $\dashv$  | -         | $\dashv$ | -        | +                | $\dashv$   |          | 112      |          | $\vdash$ | $\dashv$ | $\neg$   |        |          | 寸        | $\dashv$ | _ |
| <b></b>  | 13       | +         |              |  | +        | +-   | +  | $\vdash$   | H | $\dashv$ |          | 63       | $\vdash$     | H        |            | $\dashv$  | -         | -        |          | _                |  |          | 113      | $\vdash$ | -        | $\dashv$ | $\dashv$ |        |          | $\neg$   | $\dashv$ | - |
| <b>—</b> | 14       | +         |              |  | +        | +  | T  | H  | Н | $\dashv$ |          | 64       | Н            | H        | $\dashv$   | -         | _         | _        | $\dashv$ | $\neg +$         | $\dashv$   |          | 114      | Н        | $\vdash$ | $\dashv$ | $\neg$   |        | $\neg$   | -        | 十        |   |
| $\vdash$ | 15       | +         | $\vdash$     | ╁  | +        | ┢  | ╁  | <del>                                     </del> | H | $\dashv$ |          | 65       | $\vdash$     | Н        |            | _         | _         | $\dashv$ |          |                  | ┥.   |          | 115      |          |          | 一        |          |        | $\dashv$ | 7        | $\dashv$ |   |
| -        | 16       | +         |              | H  | +        | ╁╌   | <del>                                     </del> | $\vdash$   | H | -        |          | 66       | $\vdash$     | -        |            | $\exists$ | $\dashv$  |          | -        | $\dashv$         |  |          | 116      |          |          | T        |          |        | $\neg$   | 一        | _        | _ |
| _        | 17       | ╫         | H            | H  | $\vdash$ | <del>                                     </del> | -  | ╁┈   | Н | $\dashv$ | <u> </u> | 67       | $\vdash$     |          |            | $\dashv$  | _         | $\dashv$ | -        | -+               | _  | <b>-</b> | 117      | Н        |          | 寸        |          | _      |          | 寸        | ヿ        |   |
| $\vdash$ | 18       | +         | -            | H  | 1        | $\vdash$   | 1  | $\vdash$   | Н | $\dashv$ |          | 68       | ├-           | -        |            | _         | $\dashv$  | $\dashv$ |          | -+               | _  |          | 118      | Н        | $\vdash$ | 寸        |          |        |          | 7        | ヿ        |   |
| <b>—</b> | 19       | ╫╴        | $\vdash$     | H  | +        | $\vdash$   | -  | $\vdash$   | Н | $\dashv$ | -        | 69       | ┢            |          |            | ┪         |           | 一        | -        | $\dashv$         |  |          | 119      | Н        | $\vdash$ |          |          | _      |          | 7        | _        |   |
| $\vdash$ | 20       | H         | $\vdash$     | ╁  | +        | 1  |  | ┢  | Н | $\dashv$ |          | 70       | <del> </del> |          | -          | _         | $\dashv$  | _        | -        | $\dashv$         | $\dashv$   |          | 120      | Н        | $\vdash$ | 寸        |          |        |          | $\neg$   | 十        |   |
| <u> </u> | 21       | $\vdash$  | <del> </del> | H  | +        | H  | ┢╌   | ┢  | Н | $\neg$   |          | 71       | ┢┈           | Н        |            | _         | $\neg$    | -        | 一        | _                | $\neg$   |          | 121      | Н        | T        | $\neg$   |          |        |          |          | ヿ        |   |
|          | 22       | H         | $\vdash$     |  | $\vdash$ | ╁  | ├─   | -  | Н |          | $\vdash$ | 72       | ├            | Н        |            | f         | _         | 一        | $\neg$   | $\neg$           | $\dashv$   | <b></b>  | 122      | Н        |          | _        |          |        |          |          | $\neg$   |   |
| -        | 23       | ╫         | -            | ┢  | ╁        | H  | H  | <del> </del>                                     | Н |          |          | 73       | ╁            |          | -          | 寸         | 一         | 寸        | $\neg$   | 一                | $\dashv$   |          | 123      | Н        |          | T        |          |        |          | $\neg$   | 寸        |   |
|          | 24       | H         | H            | ┢  | +        | <del> </del>                                     | $\vdash$   |  | Н | H        | <u> </u> | 74       | <del> </del> |          |            | T         | -         | _        | $\neg$   | $\neg$           | _  |          | 124      | Н        |          | 一        |          |        |          | 1        | $\neg$   |   |
|          | 25       | Н         |              | H  | +        | ╁  | $\vdash$   |  | Н | $\dashv$ |          | 75       | <b>†</b>     |          |            | 寸         | $\neg$    | $\neg$   | $\dashv$ |                  |  |          | 125      |          |          |          |          |        |          | ヿ        | $\dashv$ |   |
|          | 26       | H         | $\vdash$     | ┢  | +        | +  | -  | 1  | Н |          |          | 76       | $t^-$        | М        | _          | $\neg$    | $\neg$    | _        | $\dashv$ |                  |  |          | 126      |          | $\neg$   | $\neg$   |          |        |          | ヿ        | $\dashv$ |   |
|          | 27       | H         | ┢            | -  | +-       |  | H  | $\vdash$   | Н | -1       |          | 77       | 一            |          |            | _         | 寸         | 寸        | 一        | 一十               | $\dashv$   |          | 127      |          |          | $\neg$   |          |        |          | $\neg$   | $\neg$   |   |
|          | 28       | ╁         | $\vdash$     | $\vdash$   | T        | t  | t  | $\vdash$   | Н | $\neg$   | -        | 78       | T            |          |            | _         |           | $\neg$   | $\neg$   | _                | ╗  |          | 128      | $\Box$   |          |          |          |        |          | ヿ        | $\neg$   |   |
|          | 29       | H         | H            | H  | 十        | $\vdash$   | 1  | 1  | П |          |          | 79       | T            |          |            | _         | $\neg$    | $\neg$   |          | $\neg$           | ヿ  |          | 129      | П        | $\neg$   | _        |          |        |          | 一        | $\neg$   |   |
|          | 30       | H         | T            | $\vdash$   | 十        | Т  | $\vdash$   | $\vdash$   | П |          |          | 80       |              |          |            |           | $\neg$    | ヿ        |          |                  |  |          | 130      |          |          |          |          |        |          |          | 寸        |   |
|          | 31       | H         | H            | T  | T        | $\vdash$   | <del>                                     </del> | <del>                                     </del> | П |          |          | 81       |              |          |            | _         | ᅵ         | ╗        |          |                  |  |          | 131      | H        |          | $\neg$   |          |        |          |          | $\neg$   |   |
|          | 32       | +         | T            | H  | T        | t  | t  | $\vdash$   | Н | -        |          | 82       | $\vdash$     |          |            |           | T         | 一        | 一        | $\neg$           | $\neg$   |          | 132      |          |          |          |          |        |          |          | $\neg$   |   |
|          | 33       |           | Г            | T  | 1        | T  | T  | $\vdash$   | П |          |          | 83       | Π            | П        |            |           |           | _        |          |                  | ヿ  |          | 133      |          | $\Box$   | $\neg$   |          |        |          | $\neg$   | $\neg$   |   |
|          | 34       |           |              | Γ  | †        |  | 1  | T  | П |          |          | 84       | Γ            |          |            | $\neg$    | ヿ         |          |          |                  | ╗  |          | 134      |          |          | $\neg$   |          |        |          |          |          |   |
|          | 35       | Т         | П            | T  | T        | T  | T  | $\vdash$   | П |          |          | 85       | Γ            |          |            | $\neg$    | T         | $\neg$   |          |                  | 7  |          | 135      |          |          |          |          |        |          |          |          |   |
|          | 36       |           | T            | Π  |          | 1  | Π  |  | П |          |          | 86       | T            |          |            | $\neg$    |           | $\neg$   |          |                  | ヿ  |          | 136      | П        |          | $\neg$   |          |        |          |          |          |   |
|          | 37       |           | П            | Γ  |          | П  |  | Π  | П |          |          | 87       | Г            |          |            | 寸         |           | $\neg$   |          |                  | T)   |          | 137      |          |          | 一        |          |        |          |          |          |   |
|          | 38       |           |              | Γ  | 1        | Т  |  | $\Box$   | П |          |          | 88       |              |          |            |           |           | $\neg$   |          |                  | ヿ  |          | 138      | П        |          | $\Box$   |          |        |          |          |          |   |
|          | 39       |           |              | Γ  | 1        | Π  | Γ  | Г  |   |          |          | 89       | Π            |          |            |           |           |          |          |                  |  |          | 139      |          |          | $\Box$   |          |        |          | $\Box$   |          | _ |
|          | 40       |           | T            | Г  | 1        | Г  | Π  | Г  | П |          |          | 90       | Γ            |          |            |           |           |          | 1        |                  |  |          | 140      |          |          |          |          |        |          |          |          | _ |
|          | 41       |           |              | Г  | 1        | Τ  |  | Т  | П | $\neg$   |          | 91       | T            |          |            | $\neg$    | $\neg$    |          | $\neg$   |                  | ٦  |          | 141      |          |          |          |          |        |          |          | $\Box$   |   |
|          | 42       |           | Π            | Г  | 1        |  | ľ  | Π  | П |          |          | 92       |              |          |            | $\neg$    | $\exists$ |          |          |                  | 7  |          | 142      |          |          |          |          |        |          |          | $\Box$   |   |
|          | 43       | Γ         | Г            | Π  | 1        | Γ  |  | Π  | П |          |          | 93       | Г            |          |            |           |           |          |          |                  |  |          | 143      |          |          |          |          |        |          | $\Box$   | $\Box$   | _ |
|          | 44       |           | П            | Γ  | Τ        | Г  | Γ  |  | П |          |          | 94       |              |          |            |           |           |          |          |                  |  |          | 144      |          |          |          |          |        |          |          |          |   |
|          | 45       |           |              |  |          |  |  |  |   |          |          | 95       |              |          |            | $\Box$    |           |          |          |                  |  |          | 145      |          |          |          |          |        |          |          |          |   |
|          | 46       |           |              | Γ  | Ι        |  |  |  |   |          |          | 96       |              |          |            |           |           |          |          |                  |  |          | 146      |          |          |          |          |        |          |          | $\Box$   |   |
|          | 47       |           |              |  |          |  |  |  |   |          |          | 97       |              |          |            |           |           |          |          |                  |  |          | 147      |          |          |          |          |        |          |          |          |   |
|          | 48       |           |              |  |          |  |  |  |   |          |          | 98       |              |          |            |           |           |          |          |                  |  |          | 148      |          |          |          |          |        |          |          | $\Box$   |   |
|          | 49       |           |              | Ε  |          |  |  |  |   |          |          | 99       |              |          |            |           |           |          |          |                  |  |          | 149      |          |          |          |          |        |          | $\Box$   |          |   |
|          | 50       |           |              | L  |          |  |  |  |   |          |          | 100      |              |          |            |           |           |          |          |                  |  |          | 150      |          |          |          |          |        |          | $\sqcup$ |          |   |